CrossTalk

Issue 60:05 60 Years Of Service To Our Community May 2019

2019 Club Officers

President :	**James Clark Sr, KA2OSV**
Vice President :	**Anthony Starr, WA2FZB**
Treasurer :	**Alan Arrison, KB2AYU**
Recording Secretary :	**John Zaruba Jr, K2ZA**
Corresponding Secretary :	**Ronald Block, NR2B**

Trustees - 4 year term

Mark Gottlieb, KK2L	***(2016-2019)***
Robert Fields, KC6AOH	***(2017-2020)***
Charles Lanard, KD2EIB	***(2018-2021)***
James Wright, N2GXJ	***(2019-2022)***

Board of Directors - 3 year term

Robert Durham, W2RAD	***(2019)***	**William Price, NJ2S**	***(2018-2020)***
Herb Dyer, KT2Y	***(2019)***	**Jeffrey Garth, WB2ZBN**	***(2019-2021)***
Charles Colabrese, WA2TML	***(2018-2020)***	**Jeffrey Welsh, KD2AZI**	***(2019-2021)***

This Month's Calendar

General Membership Meeting
Wednesday, May 1, 2019 @ 1930 Hours
Pfeiffer Community Center

Tech Saturday Forum
Saturday, May 4, 2019 @ 0900 Hours
W2MMD Clubhouse

VE License Testing Session
Thursday, May 9, 2019 @ 1900 Hours
Franklin Township Public Library

10 Meter Swap Meet
Saturday, May 11, 2019 @ 2000 Hours
Tune-In on 28.465 MHz or 28.475 MHz

Board of Directors Meeting
Wednesday, May 15, 2019 @ 1900 Hours
W2MMD Clubhouse

10 Meter Rag Chew Net
Every Tuesday @ 2000 Hours
Tune-In on 28.465 MHz or 28.475 MHz

2 Meter Rag Chew Net
Every Thursday @ 2000 Hours
Tune-In on the 147.180 MHz Repeater

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President's Message

Dear Fellow Members;

Spring has certainly arrived and brought with it some really nice weather. I hope that everyone has had a chance to get out and check their towers, antennas, and feed lines and made necessary repairs.

By the time most of us get to read this issue of Crosstalk, the first activation of Petty's Island, NJ 010R and the qualification of Pork Island NJ009S, will be history. And kudos for the qualification of Rainbow Islands NJ040S on March 30th. I am sure that Mark, KK2L and his team performed very well.

Congratulations Mark to you and your fine team. Mark, where to next?

Upcoming Events :

- June 1, 2019 : The 3rd Annual Licensing Saturday Class at Cooper University Health Care.
- June 5, 2019 : General Membership Meeting, Pizza Nite - come one - come all!
- June 22 - 23, 2019 : Field Day - Band Chairmen and Operators needed - See Al, KB2AYU to sign-up.
- August 17, 2019 : Club picnic at the W2MMD Clubhouse.
- September 15, 2019 : ARRL SNJ Section Convention & 41st Annual Hamfest - Volunteers are needed.

I would like to welcome 5 new Club members : Greg KC3NDJ, Ed W2DE, Tom KD2RPF, Allen W2XZ, and Frank N3PUU.

It looks like Jim N2GXJ put together another exciting and fun Fox Hunt on April 13th. Congratulations to the hunters : Al KB2AYU, Vinnie N4NYY, Kenny WB2P, and Herb KT2Y.

That's it for now. I hope to see you all at our May 1st General Membership Meeting.

See you all in the pileups.

73 es God Bless,

JIM CLARK, USN (Ret.), KA2OSV
President GCARC

"Ask not what your Club can do for you, but what you can do for your Club"
- KA2OSV

Wednesday, May 1, 2019 General Membership Meeting

Skype Meeting With:

Ward Silver, N0AX

ARRL Contributing Editor & Author

"Grounding and Bonding In The Ham Shack"

Welcome New Club Members :

Gregory Ciraula, KC3NDJ, who has a General Class license and lives in Harrisburg, PA.
Edward De Fonzo, W2DE, who has an Amateur Extra Class license and lives in Pittsgrove, NJ.
Thomas Farrell III, KD2RPF, who has a Technician Class license and lives in Williamstown, NJ.
Allen Miller, W2XZ, who has an Amateur Extra Class license and lives in Salem, NJ.
Frank Romeo Jr, N3PUU, who has a General Class license and lives in Sicklerville, NJ.

We are glad to have you as members of the Club and hope to see you regularly at Club meetings, events, and activities.

Our General Membership Meetings are broadcast live on Periscope.TV

If you have an Android or iOS device, go to the app store and download the Periscope application.
It is free. If you don't have a device, any PC with a web browser will let you view it.
Using the search function, just search for **W2MMD.**

QST de W1AW
ARRL Bulletin 13 ARLB013
From ARRL Headquarters
Newington CT March 29, 2019
To all radio amateurs

ARLB013 Bob Famiglio, K3RF,
Appointed to Fill Atlantic Division Vice Director Vacancy

Robert B. "Bob" Famiglio, K3RF, of Media, Pennsylvania, once again is the ARRL Atlantic Division Vice Director. Famiglio, an attorney, was appointed by ARRL President Rick Roderick, K5UR, to fill the vacancy left by the departure of Riley Hollingsworth, K4ZDH. He will serve with Atlantic Division Director Tom Abernethy, W3TOM.

Famiglio, who was initially Atlantic Division Vice Director from 2015 until 2017, is a past Eastern Pennsylvania Section Manager and is an ARRL Volunteer Counsel. He served as a District Emergency Coordinator from 2006 until 2011. Licensed since 1967, Famiglio is also an electrical engineer and former broadcast station owner and engineer. He is an FAA-certificated pilot. He is a Life Member of the Institute of Electrical & Electronic Engineers (IEEE).

Petty's Island NJ010R Activation DXpedition
Saturday, April 27, 2019
0800 to 1200 Hours

Petty's Island Team
Activation DXpedition
April 27, 2019 @ 0800 Hours

Operators

OPS	Name	Call	Band	Mode
1	Mark Gottlieb	KK2L	20M	SSB
2	Tony Starr	WA2FZB	20M	CW
3	Vinnie Sallustio	N4NYY	40M	SSB
4	Joe Everhart	N2CX	40M	CW
5	Jeffrey Welsh	KD2AZI	15M	SSB
6	Bill Price	NJ2S	20M	SSB

Band Plan

	Band	Frequency	Mode	
	20M	14.205	SSB	
	20M	14.045	CW	
	15M	21.300	SSB	
	40M	7.180	SSB	
	40M	7.050	CW	
	30M	10.116	CW	

Club Photographer : Phil Nunzio, WA3RGY

KENTUCKY DERBY

Saturday, May 4, 2019

Tech Saturday Forum
May 4, 2019 @ 0900 Hours
W2MMD Clubhouse

Open Discussion of all Amateur Radio related topics

We would like to invite all of our new members as well as our veteran members to our Tech Saturday Forums to help answer any questions and discuss any and all issues the new members have come across as they progress through the ***Amateur Radio Experience.***

The Discussion Theme is a QSO starting point - a way to initiate a conversation. All Tech Saturdays are an open QSO of all subjects of Amateur Radio interest.

All questions are welcome as well as a venue for hams to show off their latest ham radio projects or gadgets. Have a problem programming that HT, we can help! Not sure what radio or antenna to buy, we can help!

All Club members who would like Clubhouse access to use its radio equipment would have to have some brief "Elmering" on the Clubhouse rules, such as using the alarm system, the A/C and heaters, the antenna system, and the radio equipment.

All are welcome - hams and non-hams - club members and non-club members. Take a guided tour of our Clubhouse. Visit our HF and VHF/UHF/Satellite Operation Facilities and our vast antenna farm.

As always, refreshments and snacks will be served at every Tech Saturday.

The Tech Saturday Forum is held on the Saturday after the General Membership Meeting.

Jim Wright, N2GXJ's attempt to download an SSTV image from the International Space Station during a flyover on April 12 - 14, 2019

Best Down Jersey DX Picks

May 2019

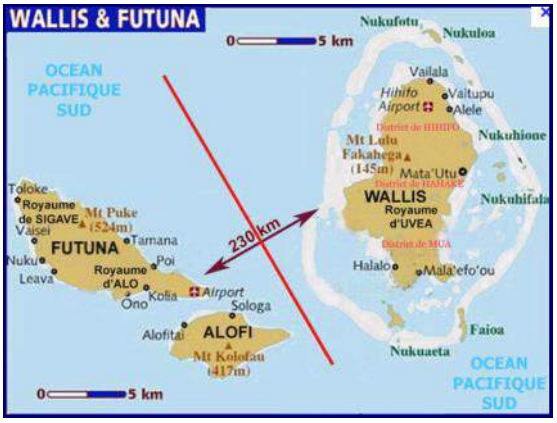
By Bill Grim, W0MHK

CALL	DATES	HIGHLIGHTS	DIFFICULTY (5=MOST RARE)	ENTITY
3D2AS	05/02 - 05/05	40-10M/SSB, FT8	3	Fiji
J88PI	05/06 - 05/16	40-10M/SSB, FT8	1	Saint Vincent Island
8Q7NH	05/07 - 05/10	160-6M/CW, FT8	3	Maldives
FW	05/08 - 05/22	40-6M/SSB, FT8 (F/H)	3	Wallis Island
XV9B0	05/13 - 05/19	160-10M/CW, SSB, RTTY	4	Vietnam
FR	05/15 - 06/05	40M, 20M, 15M/SSB, FT8	3	Réunion Island
S79HA	05/22 - 05/29	160-10M/CW, SSB	3	Seychelles
TG9BBV	05/24 - 06/13	80-12M/CW, SSB, FT8	1	Guatemala
LX	05/25 - 06/01	40-6M/CW, SSB, FT8	1	Luxembourg
SV5	05/25 - 06/14	HF/CW, SSB, RTTY	2	Dodecanese

DJ DXing Extra! : Watch for Sporadic E openings on 6M, no matter what your favorite mode is!!! Let's see what the bottom of the solar cycle can do for us in SNJ on VHF this summer.

Credits : NG3K Announce DX Operations : www.ng3k.com/Misc/adxo.html

Entity Of The Month : Wallis Island



Wallis (Wallisian: 'Uvea) is a Polynesian island in the Pacific Ocean belonging to the French overseas collectivity of Wallis and Futuna. It lies north of Tonga, northeast of Fiji, east-northeast of the Hoorn Islands, east of Fiji's Rotuma, southeast of Tuvalu, southwest of Tokelau and west of Samoa. Its area is almost 39 square miles with almost 11,000 people. Its capital is Matā'utu. Roman Catholicism is the predominant religion. Its highest point is Mount Lulu Fakahega 430 feet. Wallis is of volcanic origin with fertile soil and some remaining lakes. Rainfall is plentiful. It was part of the Tongan maritime empire from around the 13th to 16th century. By that time the influence of the Tu'i Tonga had declined so much that 'Uvea became important in itself. The big fortress of Talietumu close to Lotoalahi in Mua was the last holdout of the Tongans until they were defeated. The island was renamed "Wallis" after a Cornish navigator, Captain Samuel Wallis, who saw it while sailing aboard HMS Dolphin on August 16, 1767. On April 5, 1842, the authorities of Wallis Island requested protection by France with a protectorate treaty signed in April 1887. After a referendum in 1959, Wallis became a French Overseas Territory in 1961.

www.wikipedia.org/wiki/Wallis_(island)

Fox Hunt XIV After Action Report

By Jim Wright, N2GXJ

More pictures on the website

Thomas Jefferson's birthday turned out to be a perfect sunny day for the GCARC Spring Fox Hunt XIV. Checking in for the hunt were Vinnie (N4NYY), Ken (WB2P), Herb (KT2Y), and Al (KB2AYU). Also out for the hunt was Joe (N2CX), who emails afterwards that he forgot to bring an HT to check in, yet was out there trying, and even heard the transmitter, but never found us due to some difficulties with his "old kinda-TDOA setup". Sorry Joe! Maybe next time?

For this hunt, I hid the fox radio transmitter behind a tree near the brush line in Quay Park, and turned on just before 1 pm. The hunt was on!

The park turned out to be particularly challenging to find :

1. It wasn't Washington Lake Park, which was the obvious choice for anyone checking the defined hunt area before hand on Google maps.
2. Google maps, though it does label the park, did not show the park and its two softball fields as a "green" rectangular area, the way it marks most other parks, making it easy to miss when navigating, adding to the challenge.
3. It's in a bit of a valley, with a rise between it and the southern part of the hunt area, including Washington Lake Park (the most likely starting spot for teams), which would make the transmitter hard to hear unless you happened to be driving in the northern part of the defined hunt area, adding to the challenge.
4. The entrance to the park is a bit obscured, as it is between some houses in a neighborhood, meaning that even when you knew you were close, you might still be challenged to find your way into the park, adding one more "so close but not there yet" challenge for the hunters to deal with.

All this made for an exciting hunt!

The first call came in from Al after about 5 minutes. He was asking if the transmitter was actually on. He said he was located near the center of the hunt area, and with his beam antenna, and you could just hear it in his voice that he couldn't believe that he wasn't hearing the transmitter at all. Score one for the fox!

Jon (WB2MNF), was out checking slow scan pictures from the ISS received at our Clubhouse and monitoring the hunt progress on the repeater from there. He called in to let us know he was listening, and that no, he couldn't hear the transmitter from there either.

About 10 minutes into the hunt came the next call, this time from the Vinnie/Ken/Herb mobile crew, and a little more upbeat, saying they could hear the beacon, but still not sure where it was. The hunters were closing in!

For the next quarter hour they worked to home in on the signal, driving through neighborhoods and side streets, finally getting a strong signal as they drove down Route 635 (Hurffville-Grenloch Road). That's when they looked over and saw a small park with two ball fields, and my car parked down hill in a small gravel lot in the distance. But how to get down there? Score another one for the fox!

Another 5 minutes went by, their van finds its way into the gravel parking lot and pulls up beside me. Herb is the first to pile out of the van with words of excitement and frustration. Big smiles from my wife and I in our car. But who is going to be first to find the transmitter?

Fox Hunt XIV - Continued on page 8

Fox Hunt XIV - Continued from page 7

Now on foot, Vinnie and Herb exit the van and head correctly for the tree line. But in the rush to get into the field, Vinnie's somehow lost his mini-SMA connector that he uses as a close-in antenna. He's having trouble homing in without it. Ken lingers a bit behind.

It's 1:37 pm now, and a white pickup enters the park. Sure enough, it's Al. He's not happy seeing everyone else already here. He started less than a mile from here, and still can't believe he couldn't get an initial signal. He asks, has the transmitter been found? Not yet! He grabs his antenna from the back. The hunt is still on!

I see Herb and Ken in the woods behind a soccer net. Then, over to the side, there is a flurry of activity with Vinnie chasing Al at the edge of the brush line. Shouts go up, the transmitter has been found!

Who found it? Al! It was Al who found it first! Last to arrive, but first to the fox, wow!

Congratulations Al, our grand prize winner!

What a spirited chase! What a great day!

Jim N2GXJ (The Fox), Vinnie N4NYY, Kenny WB2P, Herb KT2Y, and Al KB2AYU
Photos by Belinda Wright

DA's and DIT's

Gary Reed, N2QEE, reports about the **April 11, 2019 VE Licensing Session :**

- 1 Candidate :
  - Greg KC3NDJ : Upgraded to General Class

The VE's attending were : **Urb W1UL, Frank W2FJM**, **Bob KD2UJ,** and **Mike, N2MHO**.

Club member **Joe Everhart N2CX** is the featured guest on episode 245 of QSO Today Amateur Radio Podcast. Click this link for more info and to listen to the podcast : **https://bit.ly/2UEtFUs**.

Joe Everhart, N2CX, reports : "As Mark mentioned, we garnered enough contacts to qualify Pork Island today. Not wanting to leave well enough alone, this afternoon I went up and activated Barnegat Lighthouse State Park on Long Beach Island. It counts as a POTA park and as USI NJ001S. Can't wait for the next USI Club outing."

A big thank you to Club member **Jon Pearce WB2MNF** for power washing the Clubhouse siding. It's that time of year and it really needed it!

Tom Preiser, N2XW, reports : It is with great sadness to announce the passing of **Stanley S. Friedman WA3JMV**. Stan was an Active ARRL Member in Atlantic County and a member of the Auxcomm/ARES team. Stan passed on Friday March 22, 2019. Stan was a Leader in his Community and in his service to the Coast Guard Auxiliary and Amateur Radio. He was active ARRL Member, DXer, and ARES Member. He was above all a great friend and will be dearly missed.

LOOK OUT!!! There is another digital mode! **FT4 Protocol for Digital Contesting.** As of April 22nd, it is in the testing phase, but may be ready for Field Day. Here is a link for more information : **www.physics.princeton.edu/pulsar/k1jt/FT4_Protocol.pdf**

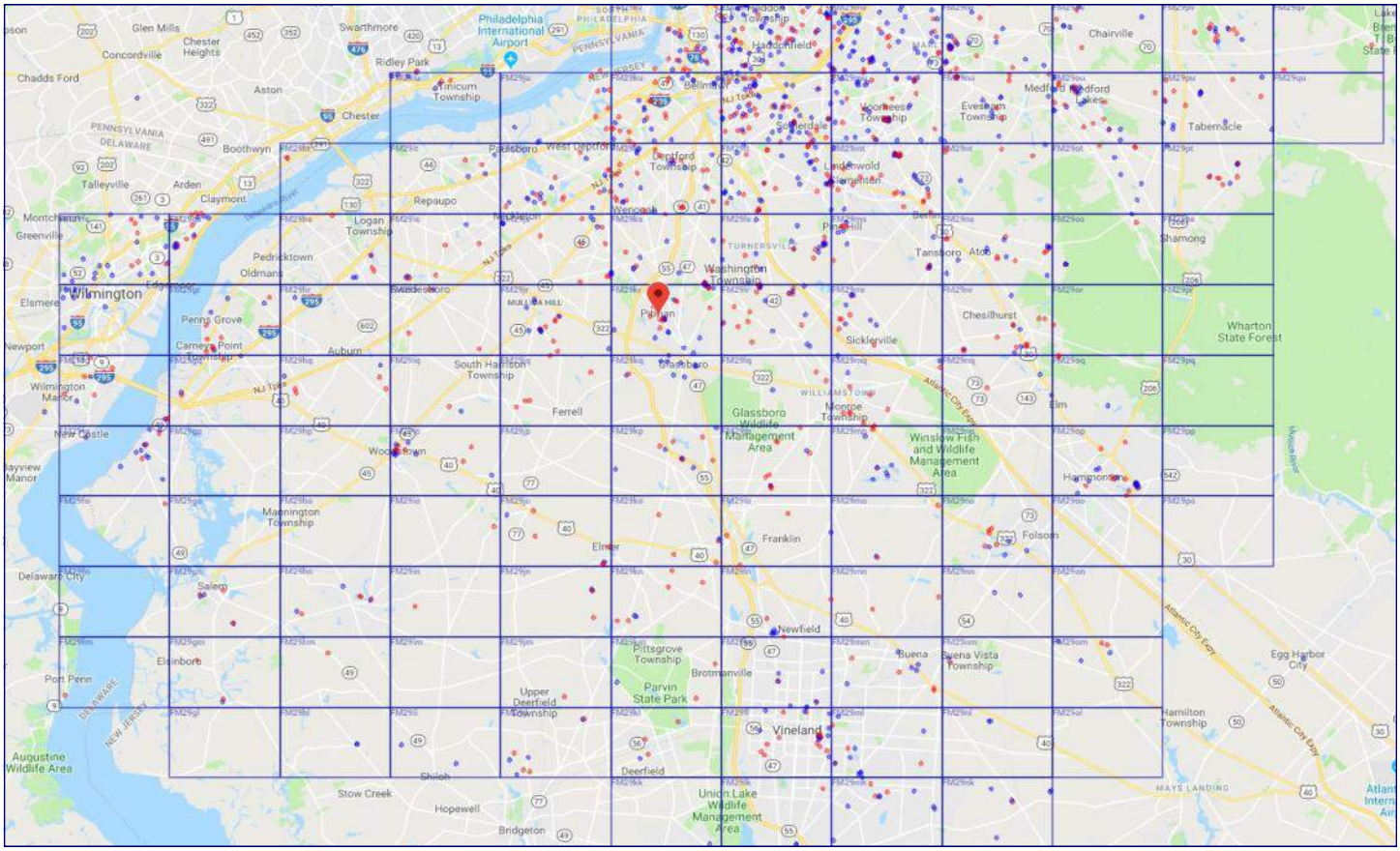
Hamvention® has announced that it will open the gates to all, **without charge**, on **Sunday, May 19, 2019**, the final day of the annual gathering at **Greene County Fairgrounds and Expo Center in Xenia, Ohio**.

The Club's 2 Meter Repeater is now on EchoLink. Just search for W2MMD-R.

Gloucester County Hams

By Jim Wright, N2GXJ

In amateur radio, QTH means "location". What's your QTH? Are there other hams near my QTH? Is there an easy way to find out? There just might be! Browse on over to: **www.qrz.com/gridmapper** and click near your home and see what happens. Below is an example from clicking around here in Southern New Jersey. Can you find yourself, and your fellow club members on the map?



First Day of Spiderbeam + Mary Mazza Duffy Park + 100 Watts + 60 Foot Mast
April 13, 2019
By Mark Gottlieb, KK2L

"It still works! North Dakota QSO Party is happening!"

Time	Call	Band	Freq	Mode	Grid[2]	Location	Comment
19:29	LC6C	20M	14.250	SSB	JP20rh	Norway	Frode Igland
20:06	LZ5DB	20M	14.187	SSB	KN22qp	Bulgaria	Milen Dimov
20:16	K4DSR	20M	14.235	SSB	EM50ur	Semmes, AL	Deep South Amateur Radio Club
20:24	K7PWE	20M	14.168	SSB	CN84kp	Albany, OR	Patrick Eastman
20:26	VP2ETE	20M	14.197	SSB	FK88lf	Anguilla	Teddy Edwards
20:33	AA5B	20M	14.284	SSB	DM65qe	Los Ranchos, NM	Bruce Draper
20:45	WA0CSL	20M	14.265	SSB	EN17gp	Hatton, ND	Mary Carlson
20:50	K0ZSH	20M	14.267	SSB	DN96pu	Bismarck, ND	Zachary Heinert
21:08	ON7LV	20M	14.160	SSB	JO21la	Belgium	Geert Vangenechten
21:14	IZ6BXV	20M	14.252	SSB		Italy	Tony Di Francesco
21:16	AM70D	20M	14.291	SSB		Spain	Unión de Radioaficionados Españoles

K3TU (Temple University Radio Shack) KX2 10 Watts + Mosley CL33M Triband
April 9, 2019
By Mark Gottlieb, KK2L

"The shack at Temple is on top of a 9 story building and the tower is about 30 feet tall above the roof. I had some time during lunch hour and worked from the station."

Time	Call	Band	Freq	Mode	Grid[2]	Location	Comment
17:56	MI5AFK	20M	14.280	SSB		Northern Ireland	Harper Browne
18:04	ON4UN	20M	14.185	SSB	JO10vx	Belgium	John Devoldere
18:16	LZ2RR	20M	14.074	FT8	KN12pp	Bulgaria	Miroslav Ionov
18:49	N7QT	20M	14.074	FT8	CN87xq	Redmond, WA	Robert Fanfant
18:58	N3CHX	20M	14.074	FT8	FN20fe	Royersford, PA	Ronald Comitz

Pork Island NJ009 Qualification DXpedition
Friday, April 19, 2019
1030 to 1430 Hours

Operators :

Mark Gottlieb, KK2L
Joe Everhart, N2CX

Call	Band	Mode	Operator	Grid[2]	Location	Comment
K7MOA	40M	CW	N2CX	EM84ga	Athens, GA	Keith Poole
AG5DT	20M	SSB	KK2L	EM31ti	Pineville, LA	Mark Kelley
VE3LDT	40M	CW	N2CX	EN93ja	London, ON	David Thorne
W8ZST	40M	CW	N2CX	EN72ms	Mulliken, MI	William Lewis
K8PRK	40M	CW	N2CX	EN72ms	Mulliken, MI	Parks Amateur Radio Club
VE2GT	40M	CW	N2CX	FN36ka	Sorel-Tracy, QC	Pierre Jolin
W8NWG	40M	CW	N2CX	EN50et	Dunlap, IL	Thomas Hunt
KN4NCL	20M	SSB	KK2L	EM66kd	White Bluff, TN	Gregory Martin
W0YJT	40M	CW	N2CX	EM29da	Topeka, KS	John Wallis
W8NNC	40M	CW	N2CX	EN91al	Avon Lake, OH	Robert Plow
WA5DTK/0	40M	CW	N2CX	EM10ek	Pflugerville, TX	John Brewer
N9SES	40M	CW	N2CX	EN61in	Lake Station, IN	Ayman Azar
CE3YD	20M	SSB	KK2L		Chile	
VA3AAA	20M	SSB	KK2L	EN68jt	Schreiber, ON	James Voogt
WB4ZBI	20M	CW	N2CX	EM75kb	Chattanooga, TN	Howard Moll Jr
DJ5RE	20M	CW	N2CX	JN59wk	Germany	Thomas Hoeppe
K5QBX	20M	CW	N2CX	EM26tl	Bella Vista, AR	Fred Lemley Jr
WN4AT	20M	CW	N2CX	EM63qi	Sterrett, AL	Joseph Ciza III
AD1C	30M	CW	N2CX	DM79nx	Brighton, CO	James Reisert
N4CD	30M	CW	N2CX	EM13ob	Plano, TX	Robert Voss
WQ4O	20M	SSB	KK2L	EL95uu	Hialeah, FL	Orestes Falcon

"Joe N2CX and I rolled the dice and came out this morning. Pork Island is now qualified under US Islands Awards Program."

Activation for Pork Island has been scheduled for
Thursday, May 2, 2019 @ 1130 Hours
If you wish to participate, please contact Mark KK2L

Rainbow Islands NJ040S Qualification DXpedition
Saturday, March 30, 2019
1030 to 1430 Hours

Operators :

Mark Gottlieb, KK2L
Joe Everhart, N2CX
Mary Delemarre, KD2PLH

Call	Band	Mode	Operator	Grid[2]	Location	Comment
N2DPM	20M	CW	N2CX	EM60qq	Crestview, FL	Richard Girardin
WD0ACB	20M	CW	N2CX	EM40mf	Winfield, KS	Leonard Russell
VE2GT	40M	CW	N2CX	FN36ka	Sorel-Tracy, QC	Pierre Jolin
N8KQG	40M	CW	N2CX	EN91rw	Conneaut, OH	Frederick Baird
VE3FWF	40M	CW	N2CX	FN25bh	Kanata, ON	Bernard Murphy
AE1T	40M	CW	N2CX	FN43ds	Plymouth, NH	Peter Drexel
VE3LDT	40M	CW	N2CX	EN93ja	London, ON	David Thorne
WT4U	40M	CW	N2CX	EM85bx	Knoxville, TN	Brent Minchey
N2JQR	40M	CW	N2CX	FN13ce	Spencerport, NY	Jeffrey Tewksbury
VE3ZN	20M	CW	N2CX	FN15qm	Renfrew, ON	Curt Bowles
K8RAT	40M	CW	N2CX	EN80op	Galion, OH	William Hansgen
WD0ACB	30M	CW	N2CX	EM40mf	Winfield, KS	Leonard Russell
N6WT	30M	CW	N2CX	CM95tc	Arroyo Grande, CA	Kent Olsen
N0WM	30M	CW	N2CX	EM48pu	O Fallon, MO	William Eggelston
KG8P	30M	CW	N2CX	EN81iw	Newport, MI	Thomas Jenkins
WA8IPA	30M	CW	N2CX	EN81iw	Newport, MI	International Police Association Radio Club 8th District
K7IOC	20M	SSB	KK2L	CN88rd	Camano Island, WA	Robert Folgedalen II

"It was myself, Joe N2CX, and Mary KD2PLH. We were on the west end of the island, but near Somers Point by the causeway. Joe pulled it through with 16 contacts on his own. Due to the CQ WW contest on SSB today, I only had 1 phone contact. We were there for 3 hours."

Activation for Rainbow Islands has been scheduled for Saturday, May 11, 2019 @ 1030 Hours

If you wish to participate, please contact Mark KK2L

60 Years Ago This Month
1959 Club History : Part 5

THE OFFICIAL PUBLICATION OF THE GLOUCESTER COUNTY AMATEUR RADIO CLUB

Volume 1 : Number 2 **May 1959**

Where: Owens-Illinois Onized Club House, Glassboro, NJ
When: May 12, 1959 @ 2000 Hours Sharp
Who: All members and any interested parties
What: Regular Meeting of the Gloucester County Amateur Radio Club

de K2JKA

Well by this time you have probably figured out where I stole the name plate for this editorial from. I am sure, however, that CQ magazine will forgive me. Speaking of names, what do you intend to use for a name on that article that you are going to write for our club newspaper? Don't give the excuse that you never wrote anything before. I'll guarantee you that if you supply me with the article it will be printed.

Getting serious for a minute, we are looking for articles of any nature, perhaps you have a favorite gadget that might be interesting to the other club members, or maybe you have a gripe about something and you would like to voice your opinion, or maybe you would like to head a monthly column, just put it on paper and get it to me by the 10th of the month, and once again I'll assure you that it will be printed. Let's adopt this motto, to increase our club paper by one page a month.

SPLATTER :

Our best wishes for a speedy recovery to **Della Parker, W2AFZ**, who is now home after a short stay in the hospital.

Tad Deuber, W2CKX, now is the proud owner of a complete Heathkit station with the new Mohawk and Apache combination now in operation.

George Stuart, K2SOL, now has a new 24 foot homebuilt wooden tower. It's a real beaut.

Woody Frantz, K2AQL, now has a new 75A4 and a new pair of glasses to read that real fine calibration.

Larry Archut, K2LMN, recently worked HC1FS on six meters. Luck, just luck.

The recent CD drill was termed as a huge success. Communication was maintained on 10, 6, and 2 meters at the County Control Center. There was approximately 25 stations participating.

CLUB NEWSPAPER STAFF :
Editor: Jack Layton, K2JKA
Assistant Editor: Al Roche, K2HHJ
Publisher: Charles Sketchley, K2PQD

Club History - Continued on page 15

Club History - Continued from page 14

A bill is being introduced into the New Jersey State Legislature which would give N.J. hams call letter license plates. This bill closely resembles that of New York State, which was recently given the O.K.

It would behoove all hams to drop a post card, letter or QSL card to their State Senator and Assemblymen, urging them to support this bill. Let's make N.J. the 44th out of the 49 to get call letter license plates.

Bob Stanley, K2CIQ, who is attending college in W5 land, recently got himself an XYL. Congratulations Bob and the best of luck.

Here's a suggestion. Why not adopt one of our regular meeting nights as ladies night and make it a social night.

WANTED :

Name for Club Newspaper, articles, someone to run swap and shop, or what have you. See **Jack Layton, K2JKA** or **Al Roche, K2HHJ.**

ATTENTION ALL NOVICES AND BEGINNERS :

At 7:00 P.M. sharp on May 12, that's our next regular meeting night, **Charles Sketchley, K2PQD,** with the able assistance of **Tad Deuber, W2CKX**, will begin their regular code class in our meeting room. Here's your chance to get that novice license or shake that WV call.

FIELD DAY :

The Field Day Committee held a meeting at the home of **George Stuart, K2SOL**. All preliminary arrangements were discussed. However, we are still looking for a site. Any suggestions? See **George Stuart, K2SOL**.

Gloucester County Amateur Radio Club
General Membership Meeting Minutes
Tuesday, May 12, 1959

Regular monthly meeting of GCARC called to order by President Frank Van Turner, W2KE, @ 1910 Hours.

The Recording Secretary's report was read and approved.

Treasurer Horace Simpson, W2JOZ, was called upon for his report and prior to reading same presented to the Club, Jack Sterner, K6PLT, ex W2GQK. He then presented a very fine report which was accepted. He also presented two bills for payment: postage of Club paper from Charles Sketchley K2PQD, and a bill from A.A. Williams Co. for window buttons. Motion to pay these bills carried.

George Stuart, K2SOL, presented the report of the Field Day committee. Four calls for Field Day use suggested, K2SOL, K2JKA, W2KE, and K2AQL. It was moved, seconded and passed that the call K2SOL be adopted.

May 1959 General Membership Meeting Minutes - Continued on page 16

May 1959 General Membership Meeting Minutes - Continued from page 15

Visiting persons were presented to the Club and welcomed by President Frank Van Turner, W2KE.

Woody Frantz, K2AQL, Chairman of Constitution and By-Laws Committee gave the third reading of proposed Constitution and By-Laws after which a brief discussion on a Board of Trustees vs. Board of Directors took place.

A motion was made, seconded and carried that said Constitution and By-Laws be adopted as originally read with a Board of Directors favored over a Board of Trustees.

Following persons were nominated for a three year directorship :
George Stuart, K2SOL
Al Roche, K2HHJ
Mal Mason, W2MMD
The electees are : George Stuart, K2SOL, and Al Roche, K2HHJ.

Following persons nominated for a two year directorship :
Mal Mason, W2MMD
Tad Deuber, W2CKX
Della Parker, W2AFZ
The electees are : Della Parker, W2AFZ, and Mal Mason, W2MMD.

Following persons nominated for one year directorship :
Tad Deuber, W2CKX
Jim Peck, W2LVW
Wally Martin, W2PLD
Charles Sketchley, K2PQD
Ray Gianchetti, WA2CUB
The electees are : Tad Deuber, W2CKX, and Charles Sketchley, K2PQD.

Jim Peck was nominated and unanimously elected Corresponding Secretary.

Mal Mason, W2MMD, announced that the June meeting would feature a conducted tour through the plant of our hosts, the Owens-Illinois Company.

The possibility of a Ladies Night was discussed and President Frank Van Turner, W2KE, appointed Tad Deuber, W2CKX, Horace Simpson, W2JOZ, and Roy Peterson, K2GHZ, as an entertainment committee to investigate the feasibility of holding a Hamfest. Tad Deuber is to serve as committee chairman.

A motion was received and passed that the treasurer be authorized to use the Mantua National Bank as the Club depository.

Motion received and passed that the Club defray the gas and oil expenses of our Field Day operations.

President Frank Van Turner, W2KE, spoke briefly on the license plate bill pending before the New Jersey State Legislature and urged members to write Trenton regarding same.

Meeting adjourned @ 2100 Hours.

Signed : Edwin S Stetser Sr, K2JJC, Recording Secretary

Field Day - June 22-23, 2019
Starting Lineup

Band	Operator	Mode
2 Meters	Herb Dyer, KT2Y	Phone
		CW
		Digital
6 Meters		Phone
		CW
		Digital
10 Meters		Phone
		CW
		Digital
15 Meters		Phone
		CW
		Digital
20 Meters	Mark Gottlieb, KK2L	Phone
	Merrill Brown Jr, WK2G Willie Ustaszeski, WA2DUV	CW
	Jim Wright, N2GXJ Jerry Jacobus, WB2QEF	Digital
40 Meters	Vinnie Sallustio, N4NYY Kenny Denson, WB2P Herb Dyer, KT2Y	Phone
	Sheldon Parker, K2MEN	CW
		Digital
80 Meters	Jim Clark Sr, KA2OSV	Phone
		CW
		Digital
GOTA (Get On The Air) Station		20 QSOs/20 Points 100 Points Max

Field Day Chairman - Al Arrison, KB2AYU
kb2ayu <*at*> comcast <*dot*> net
Chart updated as of April 7, 2019

Field Day Support Staff and Bonus Point Information

Public Location	**Gloucester County 4-H Fairgrounds**	**100 Bonus Points**
Safety Officer Checklist	**Herb Dyer, KT2Y**	**100 Bonus Points**
Public Information Table		**100 Bonus Points**
Culinary Staff	**Jeff Garth, WB2ZBN**	
Collect/Submit Electronic Logs	**Jim Wright, N2GXJ**	**50 Bonus Points**
Off-Grid Power	**Al Arrison, KB2AYU Magical Electric Truck**	**100 Points /Transmitter**
Main Backup Generator	**Backup Off-Grid Power Jeff Garth, WB2ZBN**	**100 Points /Transmitter**
Alternate Power	**Herb Dyer, KT2Y**	**100 Bonus Points**
Educational Activity		**100 Bonus Points**
Field Day Youth Participation		**20 Bonus Points 100 points Max**
Media Publicity		**100 Bonus Points**
Social Media		**100 Bonus Points**
Message Origination To Section Manager	**Bruce Canino, KD2LBU**	**100 Bonus Points**
Copy W1AW Field Day Message		**100 Bonus Points**
NTS/ICS-213 Message Handling	**Bruce Canino, KD2LBU**	**10 Points/Message 100 Points Max**
Site Visit - Invited Elected Official	**Bruce Canino, KD2LBU**	**100 Bonus Points**
Site Visit - Invited Served Agency Official		**100 Bonus Points**
Satellite QSO		**100 Bonus Points**

Field Day Chairman - Al Arrison, KB2AYU
kb2ayu <*at*> comcast <*dot*> net
Chart updated as of April 7, 2019

Kerberos SDR Direction-Finding Development at the Clubhouse

By Jon Pearce, WB2MNF

Most of you are probably familiar with software-defined radios - the USB sticks that can receive radio signals from AM broadcast into the microwave region using your computer to process the signal. Well, a bunch of smart guys have stuck four of those things into one case, connected them together, and built a "Kerberos" radio that can do a lot of cool stuff. K2QA and I each bought one, and I took it out to the Clubhouse this week for some development.

I'm specifically interested in its application in direction finding, first as an interesting development project and also to put the fear of God into N2GXJ and other fox hunters that technology was about to overwhelm skill in hidden transmitter hunts. And while that fear of God is still far off, it looks like this stuff is going to work.

The idea behind Kerberos direction finding is to put several antennas in a line and see which one receives the radio signal first. The first antenna to receive the signal is the closest to the single source; hence it points out the direction from which the signal is originating. As you can imagine, with radio signals moving at the speed of light the timing difference between two relatively close antennas is miniscule, but the developers have actually worked this out and the software can discern this difference. The Kerberos radios were developed as a Kickstarter project and are packaged in a box. The software runs on a Raspberry Pi computer, which because of the high CPU load of running 2 SDR radios, I encased it in a heat sink enclosure with two fans on it, similar to that used on the GOES satellite receiver that also has a high CPU load. **Figure 1** shows only 2 antennas connected; the radio is powered by a USB-C connection and the Pi by a standard mini-D connector.

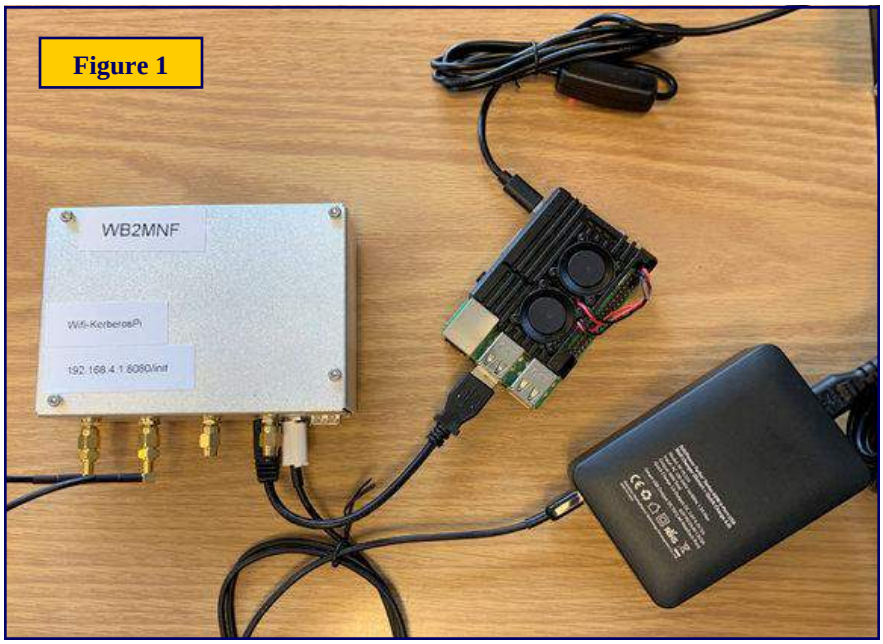


Figure 1

The optimal antennas for this arrangement is four antennas arranged in a line with the antennas placed 1/3 to 1/2 wavelength apart, so for 2 meter reception I glued four large washers to a 6 foot 1x2 and stuck 4 mag mount verticals onto the washers. This gave me a set up like the one in **Figure 2 on Page 20**.

As you can see, the Kerberos radio and Raspberry Pi are connected to AC power, which obviously limits their portability, but I'm envisioning powering them with USB battery packs in actual operation. The Pi communicates with the computer through a Wi-Fi connection and a web browser and can be located away from the radios. All of the processing occurs in the Pi, so the computer doesn't need to be particularly powerful and could probably be replaced by an iPad or some other more portable device.

Kerberos SDR - Continued on page 20

Kerberos SDR - Continued from page 19

The direction of the signal sources displayed on the computer on a line graph, with the peak of the line indicating the direction of the signal, as shown in **Figure 3**.

In testing within the Clubhouse using a HT as the signal source I could definitely see the peak of the curve move as I walked around the table, but couldn't completely correlate it with the location of the HT. These radios are subject to signal reflection, much of which probably occurs within the Clubhouse. I need to do some testing outside when the weather is more conducive, but at least these initial tests are promising. Hopefully, before the end of summer, we'll have one of these on an actual fox hunt. So if you see a couple of guys walking around with a long piece of wood on a fox hunt, you'll know what's happening.

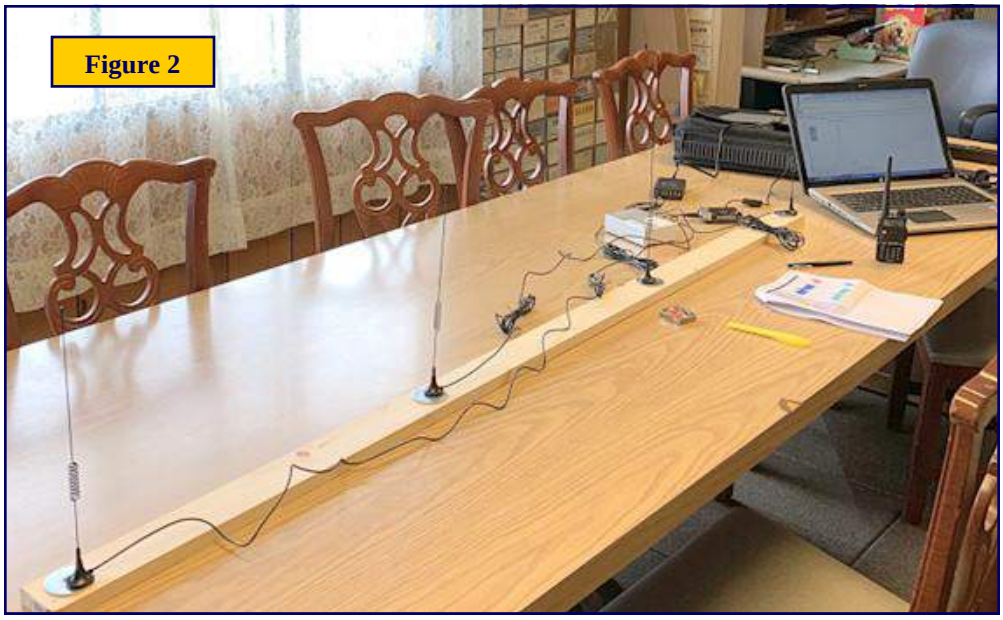


Figure 2

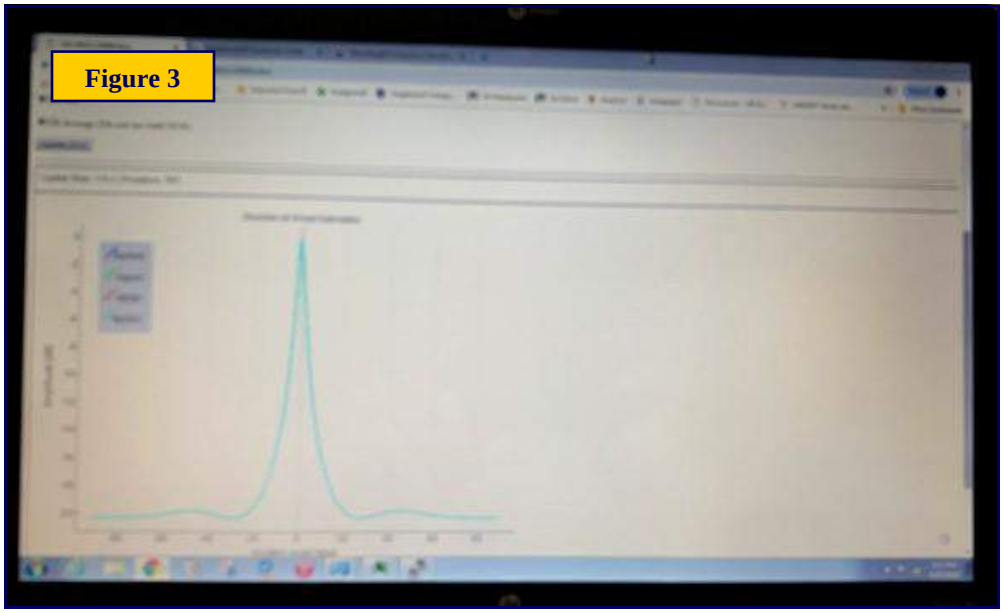


Figure 3

Museum Ships Weekend 2019
0000Z June 1 through 2359Z June 2, 2019

The Battleship New Jersey Amateur Radio Club is sponsoring the Annual Museum Ships Weekend Event

Go to www.qsl.net/w/wa2tvs/museum for more information

Radio Matters
By Urb LeJeune, W1UL

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www.ham-cram.com

Nocturnal Creative Problem Solving

Introduction :

Concentration is a disarmingly simple card game which is played by two or more people. The 52 cards of a well-shuffled deck are laid out on a surface face down. For this introduction, we'll assume there are two players, Romeo and Juliet. Juliet wins the coin toss and goes first. She picks up two cards at random and if they match, she takes the pair and places them down in front of her and selects two additional cards. If she doesn't produce a match, she put the cards, face down, into their original position and Romeo selects two cards. When there are no longer any cards face down the player with the most matches wins the game.

Here is a friendly piece of advice, if you're an adult don't even think about playing this game with a five year old unless you can handle total humiliation. A 52 card deck has 26 possible matches and a five year old frequently captures 20, or more, matches. How can this be and can a study of this phenomenon help us learn anything that might be helpful with future problem solving challenges?

First, let's reject any thought that the five year old is just lucky with the first game because they will bash us consistently. What property do they possess that the average adult lacks? The answer is total concentration. Youngsters don't have a multitude of seemingly insignificant thoughts running around inside their heads. We adults are burdened with thoughts about relationships, how to explain to the boss that we're about to miss a deadline and so on.

Some people claim that a regimen of yoga permits focusing on a single topic. I never was able to reach such an exalted level of mind-control. However, I did discover a way to harness very high levels of concentration quite by accident.

I didn't enter a college classroom until I was 46 years old. My initial reason for taking a college course was to learn how to program a computer. Like many people, I thought computer programming was about syntax, but it's not, it's primarily about logic and problem solving.

Early on in my first course, I was wrestling with a pesky problem. My program compiled successfully meaning the syntax was correct, but the program seemed to have a mind of its own and refused to do what I wanted. It's a cliché in the computer field that a program does what you tell it to do, not what you want it to do. One night an interesting thing happened. I was thinking about my elusive program as I was falling asleep.

Radio Matters - Continued on page 22

Radio Matters - Continued from page 21

Several hours later I woke up with the solution to the problem. I went back to sleep thinking I had accomplished a major breakthrough. The problem was in the morning I remembered waking up in the middle of the night with the solution, but I didn't remember what it was.

From that point on when I had a programming problem, I kept a listing of the program on my night table and if I awoke in the middle of the night I made notations on my program listing. I also kept a pocket notebook on my night table in case I came up with the solution to a non-computer problem. After several months I additionally discover I no longer had to make notes on my listings in the middle of the night, I remembered them in the morning. That was about 40 years ago and I practice this same methodology today.

What was the mechanism allowing me to harness my nocturnal creative problem solving abilities and could it be replicated by others? Over this ensuing 40 year period I have exposed the ***"problem solve while you sleep"*** methodology to countless numbers of people and only a few could not duplicate my success.

I'll leave the explanation of the modality to those infinitely more qualified with the working of the mind than I possess. From a simplistic layman's point of view I think that when we sleep we regress to the mind set of that wonderful five year old who whopped us at Concentration. I also believe, based on much experience, that we can train our minds to take directions for nocturnal subject matter selection.

How does this apply to ham radio in general and ham cramming specifically? When using this website try and do a study session and test session every day. When going to sleep, think about the associations you made connecting the questions with the correct answers. I'll wager you a cup of coffee you start processing the relationships while you sleep within a few nights.

Epilogue :
I confess, my mind does not comprehend the mechanism our mind uses to solve problems in our sleep. But I do know it works and that's good enough for me.

When not writing newsletter articles, Urb is usually working on his website : **www.ham-cram.com**.

The site has three distinguishing characteristics :

1. Only correct answers are studied
2. Only questions most likely on the actual test are studied
3. It's totally free

Study Smarter, Not Harder!

KB6NU's Ham Radio Blog

Can Indoor Antennas Work? Yes!

By Dan Romanchik, KB6NU

Recently, a reader asked:

> "I am studying your No Nonsense book as I prep for the Technician test. I am also learning CW. I am going to buy a Yaesu FT 450D as my first radio, and I want to use an indoor antenna as my first antenna. What do you recommend for CW?"

I replied:

> "To be honest, I've never had a lot of luck with indoor antennas. Don't let that dissuade you, though. I have worked many hams with indoor antennas. Just recently, for example, I worked a guy who was using a Buddipole (**www.buddipole.com**) inside his apartment.
>
> "If you have an attic, you could easily install a dipole up there. The ARRL web page on indoor antennas (**www.arrl.org/indoor-antennas**) notes, 'Attics are great locations for indoor antennas. For example, you can install a wire dipole in almost any attic space. Don't worry if you lack the room to run the dipole in a straight line. Bend the wires as much as necessary to make the dipole fit into the available space.
>
> Ladder-line fed dipoles are ideal for attic use - assuming that you can route the ladder line to your radio without too much metal contact. In the case of the ladder-line dipole, just make it as long as possible and stuff it into your attic any way you can. Let your antenna tuner worry about getting the best SWR out of this system.'
>
> "There are plenty of remote tuners now, too. You could install a doublet with elements as long as you can make them, connect them directly to the remote tuner, and then run coax to your shack.
>
> "I have also worked guys who have used Slinky antennas inside a house. The advantage of using a Slinky is that it is electrically longer than a wire of the same length.
>
> "An attached garage might also make a good location for an indoor antenna. VE3SO, who I've worked several times, uses a magnetic loop antenna installed in his garage (**www.kb6nu.com/magnetic-loop-antenna-at-ve3so**).
>
> If you do a web search for "indoor amateur radio antennas," you'll get many more ideas. Here are a few that looked promising to me:
>
> - Indoor antenna for 7 MHz (**www.iw5edi.com/ham-radio/37/indoor-antenna-for-7-mhz**)
> - An Indoor Reduced Size Rectangular Loop (**www.hamuniverse.com/kl7jrindoorloop4010.html**)

KB6NU's Ham Radio Blog - Continued on page 24

> "Another option might be to load up your gutters! I've worked a couple of guys who use gutter antennas, including WA8KOQ (**www.kb6nu.com/operating-notes-gutter-antenna-rac-contest-161-countries-worked**) and K3DY (**www.kb6nu.com/operating-notes-computer-virus-club-net-gutter-antenna**)."

This blog post garnered a couple of interesting comments. K2MUN wrote, "For many years I've used an attic mounted off-center fed 40 meter dipole. With an automatic antenna tuner and a 4:1 balun I've worked lots of DX with both QRP and, more easily, 100 watts! Certainly, outdoors is much superior, but an attic is a nice location in bad weather making playing with your antenna a pleasure :-).

John, KD0JPE, said, 'If you have an attic available, check out the following 6-band coax trap-based antenna: (**www.degood.org/coaxtrap**). I constructed one of these 9 years ago and have had great results with it.

The bottom line is that indoor antennas can definitely work. They may take more work to put up than outside antennas, but as the saying goes, "Any antenna is better than no antenna."

Regional (Atlantic & Hudson Divisions) Hamfests & Events

May 4, 2019 : Antietam Radio Association, The Great Hagerstown Hamfest, Washington County Ag-Center, 7313 Sharpsburg Pike, Route 65 South, Boonsboro, MD. **www.w3cwc.org**

May 5, 2019 : Warminster Amateur Radio Club, Eastern Pennsylvania Section Convention & Hamfest, Bucks County Community College, 1304 Veteran's Highway (Rt 413), Bristol, PA. **www.k3dn.org**

May 5, 2019 : Mount Beacon Amateur Radio Club, MBARC Spring Into Summer Hamfest, Quality of Life Building, Downstate Correctional Facility, 83 Red Schoolhouse Road, Fishkill, NY. **www.wr2abb.org**

May 10-11, 2019 : Delaware Valley Historic Radio Club, Kutztown Antique Radio Meet, Renningers Kutztown, 740 Noble Street, Kutztown, PA. **www.dvhrc.com**

May 11, 2019 : East Greenbush Amateur Radio Association, 16th Annual Hamfest, East Greenbush Volunteer Fire Department, 68 Phillips Road, Rensselaer, NY. **www.egara.club**

May 18, 2019 : Thousand Islands Repeater Club, 3rd Annual Hamfest & Breakfast, Depauville Fire Department Banquet Hall, 15191 School Street, Depauville, NY. **www.tirepeaterclub.com**

May 25, 2019 : Bergen Amateur Radio Association, BARA Spring Hamfest, Westwood Regional Jr/Sr High School, 701 Ridgewood Road, Township of Washington, NJ. **www.bara.org**

May 26, 2019 : Maryland FM Association, Memorial Day Hamfest, Howard County Fairgrounds, 2210 Fairgrounds Road, West Friendship, MD. **www.marylandfm.org**

May 17 - 19, 2019
Greene County Fairgrounds & Expo Center, Xenia, OH
www.hamvention.org

WARMINSTER AMATEUR RADIO CLUB

2019 HAMFEST & EPA SECTION CONVENTION

Sunday, May 5th, 2019 (rain or shine)
Open at 7 a.m. (vendors at 6 a.m.)

Talk-in: 147.09+ (131.8) / 443.95+ (131.8)

GPS Coordinates: 40.112755, -74.876504

Location: Lower Bucks Campus - Bucks County Community College
1304 Veteran's Hwy (Route 413)
Bristol, PA 19007

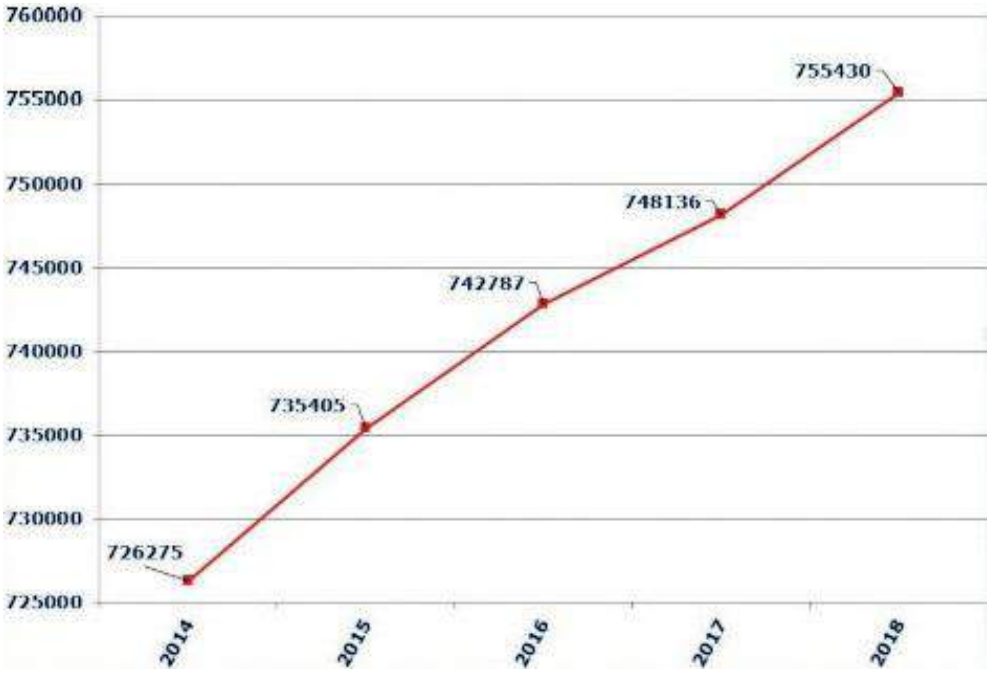
- New & Used Ham Radio & PC Equipment
- Equipment check-out table
- VE Testing at 10:00 am
- DXCC card checking
- Door prizes every hour
- Food service available
- ARRL Guest Speaker:Bob Allison WB1GCM (See K3DN website: www.k3dn.org for announcement of speakers and times)

- Gate admission: $7/person
  - Unlicensed spouses & under 13 free
  - Students free with valid ID
  - Handicap parking available
- Tailgating: $10/car-width space (plus admission)
- Indoor tables: $15/table (plus admission)
  - Electricity at some tables by request

Hamfest Contact: hamfest@k3dn.org
Website: www.k3dn.org

US Amateur Radio Population Grows Slightly in 2018

The US Amateur Radio population once again grew by about 1%, based upon 2017 and 2018 year-end FCC database statistics provided by Joe Speroni, AH0A. The 755,430 total licensees represent nearly 7,300 more license holders than those that were in the database at the end of 2017. Nearly 51% of the Amateur Radio population in the US -- 384,145 -- hold a Technician license. Generals are second with 175,949, and Amateur Extras number 147,369. Advanced and Novice licensee populations continue to decline, with 39,607 Advanced and 8,360 Novices, as the FCC no longer issues Advanced or Novice licenses. A more significant statistic is 31,576 new FCC licenses last year, although that's 620 fewer than came aboard in 2017.



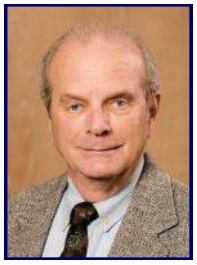
"New amateur licenses granted by FCC are down 2% over last year," noted ARRL Volunteer Examiner Coordinator (VEC) Manager Maria Somma, AB1FM, "but this is the fifth year in a row the total has been greater than 31,000. I predict that the number of new licensees will be more than 30,000 at the end of this year as well, and I'm optimistic this trend will continue."

Upgrades also are down slightly, compared to last year -- 9,456 in 2018 versus 9,576 in 2017, she added. "For the fifth year in a row, we have conducted more than 7,000 Amateur Radio exam sessions in a year -- an important milestone for the ARRL VEC," Somma recounted. "Our program continues to provide outstanding service to the ARRL, its members, and the entire Amateur Radio community."

ARRL VEC filed a total 30,393 license application forms last year, compared to 31,014 in 2017. That includes new, upgrade, modification, renewal, and club station filings. At 7,035 in 2018, the number of exam sessions conducted by ARRL VEC marginally trailed the 7,075 held in 2017. ARRL VEC served 34,493 exam applicants in 2018, compared to 35,352 in 2017. Exam elements administered by ARRL decreased from 47,152 last year to 45,817 this year, Somma said. Nearly 1,800 new Volunteer Examiners (VEs) have been added to the ARRL VEC program.

The ARRL Letter for February 14, 2019 - **www.arrl.org**

QST de W1AW
ARRL Bulletin 14 ARLB014
From ARRL Headquarters
Newington CT April 17, 2019
To all radio amateurs



ARLB014 ARRL and FCC Sign Memorandum to Implement New Volunteer Monitor Program

ARRL and the FCC have signed a Memorandum of Understanding (MOU) that paves the way to implement the new and enhanced Volunteer Monitor program. The memorandum establishes the Volunteer Monitors as a replacement for the Official Observers (OO) program. Current OOs have been encouraged to participate in the new program.

"We are excited by the opportunity to codify our partnership with the FCC and to work together to achieve our mutual interests of protecting the integrity of our Amateur Radio bands," said ARRL President Rick Roderick, K5UR. "This Memorandum of Understanding will serve as the foundation for a new level of partnership on this very important issue."

ARRL has contracted with retired FCC special counsel and former Atlantic Division Vice Director Riley Hollingsworth, K4ZDH, to oversee the ARRL's role in the development and implementation of the Volunteer Monitor program.

Approved by the ARRL Board of Directors at its July 2018 meeting, the new Volunteer Monitor program is a formal agreement between the FCC and ARRL in which volunteers trained and vetted by the ARRL will monitor the airwaves and collect evidence that can be used both to correct misconduct or recognize exemplary on-air operation. Cases of flagrant violations will be referred to the FCC by the ARRL for action in accordance with FCC guidelines.

The intent of this program is to re-energize enforcement efforts in the Amateur Radio bands. It was proposed by the FCC in the wake of several FCC regional office closures and a reduction in field staff.

"Under this program, the FCC will give enforcement priority to cases developed by the Volunteer Monitor program, without the delay of ARRL having to refer cases through the FCC online complaint process," Hollingsworth said.

Hollingsworth has identified three phases to the program : Development, Solicitation and Training, and Implementation.

1. The Development phase will include drafting a mission statement, clearly defining the ARRL's and FCC's requirements and needs as part of the program, writing a job description for volunteer monitors, and developing a training manual for volunteers.
2. The Solicitation and Training phase will involve identifying the geographic locations where volunteer monitors will be most needed, soliciting applications and guidance from Section Managers in reviewing applicants. (Those currently volunteering as Official Observers are invited to apply for appointment as Volunteer Monitors.)
3. The Implementation phase will involve having the volunteers provide field reports to ARRL, with

ARLB014 - Continued on page 29

ARLB014 - Continued from page 28

staff offering guidance to volunteers to ensure that the information collected meets requirements for FCC enforcement action.

Hollingsworth has committed to FCC and ARRL officials to ensure the adequacy of training for the new positions, to review the quality and utility of Volunteer Monitor submissions to the FCC for enforcement actions, and to advocate for rapid disposition of cases appropriately submitted to the FCC.

ARRL officials estimate that within 6 to 9 months the first Volunteer Monitors will be in place and ready to begin their duties.

Sunday, May 12, 2019

Monday, May 27, 2019

QST de W1AW
Special Bulletin 4 ARLX004
From ARRL Headquarters
Newington CT April 17, 2019
To all radio amateurs

ARLX004 Amateur Radio in Space Pioneer Astronaut Owen Garriott, W5LFL (SK)

The US astronaut who pioneered the use of Amateur Radio to make contacts from space - Owen K. Garriott, W5LFL - died April 15 at his home in Huntsville, Alabama. He was 88. Garriott's ham radio activity ushered in the formal establishment of Amateur Radio in space, first as SAREX - the Shuttle Amateur Radio Experiment, and later as ARISS - Amateur Radio on the International Space Station.

"Owen Garriott was a good friend and an incredible astronaut," fellow astronaut Buzz Aldrin tweeted. "I have a great sadness as I learn of his passing today. Godspeed Owen."

An Oklahoma native, Garriott - an electrical engineer - spent 2 months aboard the Skylab space station in 1973 and 10 days aboard Spacelab-1 during a 1983 Space Shuttle Columbia mission. It was during the latter mission that Garriott thrilled radio amateurs around the world by making the first contacts from space. Thousands of hams listened on 2-meter FM, hoping to hear him or to make a contact. Garriott ended up working stations around the globe, among them such notables as the late King Hussein, JY1, of Jordan, and the late US Senator Barry Goldwater, K7UGA. He also made the first CW contact from space. Garriott called hamming from space "a pleasant pastime."

"I managed to do it in my off-duty hours, and it was a pleasure to get involved in it and to talk with people who are as interested in space as the 100,000 hams on the ground seemed to be," he said in an interview published in the February 1984 edition of QST. "So, it was just a pleasant experience, the hamming in particular, all the way around."

Although Garriott had planned to operate on ham radio during his 10 days in space, no special provisions were made on board the spacecraft in terms of equipment - unlike the situation today on the International Space Station. Garriott simply used a hand-held transceiver with its antenna in the window of Spacelab-1. His first pass was down the US West Coast.

"[A]s I approached the US, I began to hear stations that were trying to reach me," he told QST. "On my very first CQ, there were plenty of stations responding." His first contact was with Lance Collister, WA1JXN, in Montana.

ARISS ARRL Representative Rosalie White, K1STO, met Garriott when he attended Hamvention, "both times, sitting next to him at Hamvention dinner banquets," she recounted. "Once when he was a Special Achievement Award winner, and once with him and [his son] Richard when Richard won the 2009 Special Achievement Award. Owen was unassuming, very smart, kind, and up to date on the latest technology." Garriott shared a Hamvention Special Achievement Award in 2002 with fellow Amateur Radio astronaut Tony England, W0ORE.

Richard Garriott, W5KWQ, was a private space traveler to the ISS, flown there by the Russian Federal Space Agency, and he also carried ham radio into space.

ARRL DX Contest, CW
February 16, 2019

Call : WA2FZB
Operator (s) : WA2FZB
Station : WA2FZB

Class : SO Unlimited HP
QTH : SNJ
Operating Time (hrs) : 32
Location : USA

Summary :

Band	QSOs	Mults
160 :	18	18
80 :	146	59
40 :	257	80
20 :	506	93
15 :	112	62
10 :	4	1
Total :	1,043	313

Total Score : 979,377

Club : Frankford Radio Club

Comments :
A little short of my goal, but overall I am pleased with the progress that I am making. Being a member of both FRC and CW Ops, I am certain that I will continue to improve. Thanks to all who called in, and I hope that all of you did well too! 73!

Tony WA2FZB 01

CWops Mini-CWT Test
February 21, 2019 @ 0300Z

Call : WA2FZB
Operator (s) : WA2FZB
Station : WA2FZB

Class : Single Op HP
QTH : SNJ
Operating Time (hrs) : 1
Location : USA

Summary :

Band	QSOs
80 :	83
Total :	83 Mults: 83

Total Score : 6,889

Club : Frankford Radio Club

Comments :

04

ARRL DX Contest, CW
February 16, 2019

Call : N2CQ
Operator (s) : N2CQ
Station : N2CQ

Class : SO Unlimited QRP
QTH : SNJ
Operating Time (hrs) : 6.5
Location : USA

Summary :

Band	QSOs	Mults
40 :	34	27
20 :	111	58
15 :	2	2
Total :	147	87

Total Score : 38,367

Club : Frankford Radio Club

Comments : 02

ARRL DX Contest, CW
February 16, 2019

Call : WK2G
Operator (s) : WK2G
Station : WK2G

Class : SO Unlimited HP
QTH : PA
Operating Time (hrs) : 35
Location : USA

Summary :

Band	QSOs	Mults
80 :	170	59
40 :	365	73
20 :	890	80
15 :	160	48
Total :	1,585	260

Total Score : 1,236,300

Club : Frankford Radio Club 03

Comments : *Was very surprised to hear 20 open all day. Got on 15 at the right time, but conditions were short lived to Europe. Gave the Hex Beam a nice work out and very happy with the results at only 40 feet. Just put up a 40 meter loop and that surprised me as well with quiet conditions. Thanks to all who spotted me.*

CQ 160 Meter Contest, SSB
February 22, 2019

Call : AB2E
Operator (s) : AB2E
Station : AB2E

Class : Single Op Assisted HP
QTH : NJ
Operating Time (hrs) : 1
Location : USA

Summary :
Total :
QSOs 60 State/Prov 21 Countries 2
Total Score : 3,312

Club : Frankford Radio Club

Comments :
Rig : IC7700/SPE 1.5K-FA
Antenna : 160m Inverted L @80ft

05

CQ 160 Meter Contest, SSB
February 22, 2019

Call : WA2FZB
Operator (s) : WA2FZB
Station : WA2FZB

Class : Single Op Assisted HP
QTH : NJ
Operating Time (hrs) :
Location : USA

Summary :
Total :
QSOs 75 State/Prov 28 Countries 5
Total Score : 6,732

Club : Frankford Radio Club

Comments :
Just a warm-up for next week!

06

ARRL DX Contest, SSB
March 2, 2019

Call : WA2FZB
Operator (s) : WA2FZB
Station : WA2FZB

Class : SO Unlimited HP
Cabrillo Category : Single-Op All Band Assisted One-Transmitter HP
QTH : SNJ
Operating Time (hrs) : 30
Location : USA

Summary :

Band	QSOs	Mults
160 :	3	3
80 :	91	53
40 :	115	54
20 :	304	82
15 :	84	27
10 :	8	3
Total :	605	222

Total Score : 402,930

Club : Frankford Radio Club

09

Comments : *The longest 30 hours of my contesting life! Glad that it's over. 73!*

CWops Mini-CWT Test
February 28, 2019 @ 0300Z

Call : WA2FZB
Operator (s) : WA2FZB
Station : WA2FZB

Class : Single Op HP
QTH : SNJ
Operating Time (hrs) : 1
Location : USA

Summary :

Band	QSOs
80 :	86
Total :	86

Mults: 86
Total Score : 7,396

Club : Frankford Radio Club

Comments : *One more CWT until Daylight Savings*

10

Element 3 General Class License Question Quiz

Questions from the Element 3 General Class License Question Pool. This will be regular feature to help Technicians upgrade to General Class. Answers on 'Last Page Calendar'.

This month we continue with **Subelement G7: Practical Circuits**

G7B01
Complex digital circuitry can often be replaced by what type of integrated circuit?
A. Microcontroller
B. Charge-coupled device
C. Phase detector
D. Window comparator

G7B02
Which of the following is an advantage of using the binary system when processing digital signals?
A. Binary "ones" and "zeros" are easy to represent by an "on" or "off" state
B. The binary number system is most accurate
C. Binary numbers are more compatible with analog circuitry
D. All of these choices are correct

G7B03
Which of the following describes the function of a two input AND gate?
A. Output is high when either or both inputs are low
B. Output is high only when both inputs are high
C. Output is low when either or both inputs are high
D. Output is low only when both inputs are high

G7B04
Which of the following describes the function of a two input NOR gate?
A. Output is high when either or both inputs are low
B. Output is high only when both inputs are high
C. Output is low when either or both inputs are high
D. Output is low only when both inputs are high

G7B05
How many states does a 3-bit binary counter have?
A. 3
B. 6
C. 8
D. 16

G7B06
What is a shift register?
A. A clocked array of circuits that passes data in steps along the array
B. An array of operational amplifiers used for tri-state arithmetic operations
C. A digital mixer
D. An analog mixer

General Class Quiz - Continued on page 34

General Class Quiz - Continued from page 33

G7B07
What are the basic components of virtually all sine wave oscillators?
A. An amplifier and a divider
B. A frequency multiplier and a mixer
C. A circulator and a filter operating in a feed-forward loop
D. A filter and an amplifier operating in a feedback loop

G7B08
How is the efficiency of an RF power amplifier determined?
A. Divide the DC input power by the DC output power
B. Divide the RF output power by the DC input power
C. Multiply the RF input power by the reciprocal of the RF output power
D. Add the RF input power to the DC output power

G7B09
What determines the frequency of an LC oscillator?
A. The number of stages in the counter
B. The number of stages in the divider
C. The inductance and capacitance in the tank circuit
D. The time delay of the lag circuit

G7B10
Which of the following is a characteristic of a Class A amplifier?
A. Low standby power
B. High Efficiency
C. No need for bias
D. Low distortion

The W1UL Ham Cram Website
www.ham-cram.com

ARRL Ham Radio License Exam Practice Website
www.arrlexamreview.appspot.com

Gloucester County Amateur Radio Club
Board of Directors Meeting Minutes
March 20, 2019

Meeting opened @ 1902 Hours

February 27, 2019 Board of Directors Meeting minutes were read and approved

Attendance :

President Jim Clark KA2OSV (via phone)
Vice President Tony Starr WA2FZB
Treasurer Al Arrison KB2AYU
Recording Secretary John Zaruba K2ZA
Corresponding Secretary Ron Block NR2B
Director Jeff Garth WB2ZBN
Director Bill Price NJ2S
Director Bob Durham W2RAD
Director Chuck Colabrese WA2TML
Director Herb Dyer KT2Y
Director Jeffrey Welsh KD2AZI
Trustee Mark Gottlieb KK2L
John O'Connell K2QA

Treasurer's Report :

- YTD Income : $2007
- YTD Expenses : $867
- Net : $1139

Current membership non-renewal count is at 50+ (approximately 1/3 of the Club).

Treasurer's report moved, seconded, and passed by unanimous voice vote.

Committees Reports :

Clubhouse : Al Arrison KB2AYU reported that many bodies are needed to assist with ongoing projects. Bill Price NJ2S discussed door strike donation (thanks to Bobby Sweeten for the donation). Jeff Garth WB2ZBN suggested swapping the front door lock with one of the interior door locks temporarily until the new door lock is installed.

Old Business :

Franklinville towers need to be evaluated by Tony Starr WA2FZB and Al Arrison KB2AYU. Discussed delivery mechanisms, amount of concrete needed for the base, and other associated costs.

Petty's Island Activation is scheduled for April 27, 2019. All approvals are in place. Self supporting antennas, please do not use the utility poles on site.

March 2019 Board of Directors Meeting Minutes- Continued on page 36

March 2019 Board of Directors Meeting Minutes- Continued from page 35

Pork Island (Margate) Qualification date TBD.

Rainbow Islands Qualification is scheduled for March 30, 2019.

New Business :

Ham Cram Licensing Saturday scheduled for June 1, 2019 at Cooper Hospital. Discussion of logistics, printing, and advertising. (Cooper will provide).

Field Day : Al Arrison KB2AYU has already received some band sign ups for 2019. Club purchased band pass filters have not been located after a search of the Clubhouse. Anyone with knowledge of their whereabouts please contact KB2AYU.

John O'Connell K2QA has set up the new Comcast modem and fixed IP addresses on the Clubhouse network.

Al Arrison KB2AYU discussed funds needed for replacement Uninterruptible Power Supply (UPS) for various Clubhouse networked devices (security system, DVR, modem, etc.) as well as adding the Network Attached Storage (NAS) device.

New Member Approval :

- Michael Pecorini KD2RPE

Meeting adjourned @ 2006 Hours

Respectfully submitted,

John Zaruba Jr K2ZA
Recording Secretary

Gloucester County Amateur Radio Club
General Membership Meeting Minutes
Wednesday, April 3, 2019

Meeting opened @ 1932 Hours by President James Clark Sr, KA2OSV

Previous meeting minutes moved, seconded, and approved as printed in Crosstalk by voice vote of members present.

Attendance :

- 45 Members
- 2 Visitors :
  - Frank Romeo N3PUU
  - Al Miller W2XZ

April 2019 General Membership Meeting Minutes- Continued on page 37

April 2019 General Membership Meeting Minutes- Continued from page 36

Treasurer's report :

- YTD Income : $2007
- YTD Expenses : $1078
- Net : $929

Annual state and federal tax forms have been filed. Report moved, seconded, and approved by voice vote of members present.

Committees :

Clubhouse : Al Arrison KB2AYU reported new front door and card reader project not done yet. Shed needs new doors fabricated. Tech Saturday will be open forum.

Hamfest : Sheldon Parker K2MEN reported that an application was filed with ARRL to be SNJ Section Convention.

Contests : Tony Starr WA2FZB reported the CQ WPX contest was the previous weekend. April has many state QSO parties happening.

Field Day : Al Arrison KB2AYU noted FD 2019 is fast approaching, band operator signups are available on the Club site. Still looking for the Club purchased band pass filters, anyone with knowledge of their where-abouts please contact Al. KB2AYU's electric truck will again be powering the Field Day site.

Old Business :

Lee Marino N2LAM inquired as to the status of the Club's pursuit of 501(c)3 status. The Board of Directors declined to move forward after much discussion.

New Business :

Al Arrison KB2AYU made a motion to approve a non-budget expenditure of up to $2000 for the purchase of a UPS, NAS, and router to upgrade the Clubhouse IT infrastructure.

Motion seconded and approved by voice vote of members present.

Mark Gottlieb KK2L discussed various US Islands Awards Program Club activities coming up :

- Rainbow Islands which was qualified on March 30th
- Pork Island will be qualified on April 19th
- Petty's Island will activated on April 27th

Meeting adjourned @ 1932 Hours

Respectfully submitted,

John Zaruba Jr K2ZA
Recording Secretary

Gloucester County Amateur Radio Club
Board of Directors Meeting Minutes
April 17, 2019

Meeting opened @ 1931 Hours by Vice President Tony Starr, WA2FZB

Attendance :

Vice President Tony Starr WA2FZB
Treasurer Al Arrison KB2AYU
Recording Secretary John Zaruba K2ZA
Director Jeff Garth WB2ZBN
Director Bill Price NJ2S
Director Bob Durham W2RAD
Director Herb Dyer KT2Y
Trustee Mark Gottlieb KK2L
Trustee Jim Wright N2GXJ
John O'Connell K2QA
Lee Marino N2LAM
Jon Pearce WB2MNF

March 20, 2019 Board of Directors Meeting minutes approved as read by voice vote of directors present.

Treasurer's Report :

- YTD Income : $2200
- TYD Expenses : $1078
- Net : $1121

40 members have not paid their 2019 dues.

Treasurer's report moved, seconded, and approved by voice vote of director's present.

Committee Reports :

Clubhouse : Bill Price NJ2S received new door strike. Discussion of ordering new front door and frame.

Hamfest : Bill Price NJ2S reported ARRL has approved our application for SNJ Section convention. Tony Starr WA2FZB reported that the Warminster Hamfest on May 5, 2019 will be the Eastern PA Section Convention.

Old Business :

Franklinville towers still need to be evaluated.

New Business :

Jim Wright N2GXJ suggested that Field Day should be entered on the 4-H Event Calendar to avoid any parking conflicts.

April 2019 Board of Directors Meeting Minutes - Continued on page 39

April 2019 Board of Directors Meeting Minutes - Continued from page 38

Bill Price NJ2S said he will check with the 4-H with regard to whom is cutting the Clubhouse grass.

New Member Approvals :

- Edward De Fonzo W2DE Pittsgrove, NJ
- Allen Miller W2XZ Salem, NJ
- Thomas Farrell III KD2RPF Williamstown, NJ
- Francis Romeo N3PUU Sicklerville, NJ
- Gregory Ciraula KC3NDJ Harrisburg, PA

For the good of the order :

Mark Gottlieb KK2L reported these upcoming events :

- Pork Island Qualification April 19, 2019.
- Petty's Island Activation April 27, 2019. Team will meet at Penn Queen Diner at 7:00 AM.

Meeting adjourned @ 2016 Hours.

Respectfully submitted,

John Zaruba Jr K2ZA
Recording Secretary

Area Walk MS Events for May 2019

Walk MS: Ocean City, NJ 2019 - Sunday, May 5, 2019

https://secure.nationalmssociety.org/site/TR/Walk/PAEWalkEvents?pg=entry&fr_id=30575

Walk MS: Pennsauken Township 2019 - Sunday, May 5, 2019

https://secure.nationalmssociety.org/site/TR/Walk/PAEWalkEvents?pg=entry&fr_id=30572

NJEPA
New Jersey Emergency Preparedness Association

April 29 - May 3, 2019 - Tropicana Casino & Resort, Atlantic City, NJ
www.njepa.org

CHERRY VALLEY MODEL RAILROAD CLUB presents:

All Scale Swap Meet & Open House!

Saturday, May 4, 2019
9am-1pm

Grace Church • 7 East Maple Ave.
Merchantville, NJ 08109

- **Shop dozens of tables of trains, accessories, detail parts, buildings, scenery & more in: O scale, HO scale, N scale, Narrow Gauge, 3 rail**
- **The club layout will be open from 12-3pm**
- **Swap meet admission is only $5.00 !**

FOLLOW US ON facebook

Follow us on Facebook: Cherry Valley Model Railroad

For more information contact: Ernest Kraus at 856-468-8537
or mail in registration with payment by April 19 to guarantee a table.

South Jersey Rail Expo: Sat, May 4, 2019. Registration Form.

First 6' table: $20 and includes 1 admission. Add'l 6' tables: $15 ea. Table helpers: $5 ea.
Payment payabe to: *Cherry Valley Model Railroad.*

Name_____

Address_____

City, State, Zip_____

Phone_____ email_____

Mail to: Ernest Kraus: 18 Saint Regis Drive, Woodbury NJ 08096
Payment must accompany this registration to reserve tables.

Saturday, June 1, 2019

GCARC and Urb LeJeune W1UL proudly presents the 3rd Annual Licensing Saturday

Celebrating Our 60th Year

Classes Start @ 8:00 AM

www.w2mmd.org

www.cooperhealth.org

Preparation Classes For The Technician and General Class Licenses
At Cooper University Health Care - 1 Cooper Plaza - Camden, NJ

Technician Preparation Class Begins @ 8:00 AM **VE Exam Session Begins @ 11:00 AM**	**General Preparation Class Begins @ 1:00 PM** **VE Exam Session Begins @ 4:00 PM**

Cooper University Health Care is offering a free lunch for both groups between 12:00 and 1:00 PM

Cooper Staff will direct people where they need to go and provide parking vouchers

There is no cost for the preparation classes. There is a $15.00 fee for taking the VE Exam.

You can take the VE Exam for any class of license with or without taking either preparation class.

Both groups are required to complete e-mail study sessions prior to the June 1st class

You must have passed a Technician Class license exam before taking the General Class license exam.

If you are attending to upgrade your license class, please bring an original or a copy of your license.

For either exam, you must also show a ***Photo ID*** such as a driver's license or student ID.

If you pass the Technician Class exam, you can take the General and Amateur Extra Class exams at no additional cost, as long as the exams are taken at the same VE exam session.

Advanced registration is required due to limited space

Please contact Urb LeJeune, W1UL at: urb@ham-cram.com or call 609-937-5487

May Birthdays

Congratulations to our members who are celebrating their birthday this month

Chuck Capasso WB2PGE
Bob Demola KD2GFL
Carmen Inverso WA2TRS
Brian Jones KD2BXD
Bill Jones KD2FHM
Joe Lee Jr N2BNJ
Darrell Neron AB2E (President 2005, 2006, 2007)
Tony Starr WA2FZB
Gina Wallace KB2JCQ

In Memoriam - May Birthdays

Silent Keys :
David Allin N2TVR
Walton Ashton Jr WB2OYQ
Burris Bauer
Bertha Farr Eggert WA4BMC
Hyman Friend KB2GH
Richard Hackett AA2RK
James Montagno N2WHY
Roy Peterson Jr K2GHZ
James Scannell Jr KB2GTT
Joseph Schneider KB2SVJ
Herbert Telling N2IZM
Charles Weiler KA2OSW
Edward Wilson WA2SXC

Armed Forces Day - Saturday, May 18, 2019

Crosstalk Submissions

This is your Club Newsletter. Make use of it.

If you have stories or photos of your hobby that you would like to share with the Club, please do so!

We will keep covering all of the GCARC events, but it is also nice to get those personal perspectives to include in every issue. Connecting through experiences is what makes the Gloucester County Amateur Radio Club a *REAL* Club.

All submissions, queries, comments and editorials should be addressed to Jeffrey Garth, WB2ZBN at jeff <*dot*> garth <*at*> comcast <*dot*> net.

Submission deadline for the June 2019 issue: Monday, May 20, 2019

Club Website www.w2mmd.org
Club E-Mail Reflector: GCARC <*at*> Mailman <*dot*> QTH <*dot*> Net

May Contest Calendar

WA7BNM Contest Calendar : www.contestcalendar.com

May 2019	
+ Phone Fray	0230Z-0300Z, May 1
+ CWops Mini-CWT Test	1300Z-1400Z, May 1 and 1900Z-2000Z, May 1 and 0300Z-0400Z, May 2
+ AGCW QRP/QRP Party	1300Z-1900Z, May 1
+ NRAU 10m Activity Contest	1700Z-1800Z, May 2 (CW) and 1800Z-1900Z, May 2 (SSB) and 1900Z-2000Z, May 2 (FM) and 2000Z-2100Z, May 2 (Dig)
+ SKCC Sprint Europe	1900Z-2100Z, May 2
+ NCCC RTTY Sprint	0145Z-0215Z, May 3
+ NCCC Sprint	0230Z-0300Z, May 3
+ Araucaria World Wide VHF Contest	0000Z, May 4 to 1600Z, May 5
+ 10-10 Int. Spring Contest, CW	0001Z, May 4 to 2359Z, May 5
+ SBMS 2.3 GHz and Up Contest and Club Challenge	0600 local, May 4 to 2359 local, May 5
+ Microwave Spring Sprint	0800-1400 local, May 4
+ ARI International DX Contest	1200Z, May 4 to 1159Z, May 5
+ 7th Call Area QSO Party	1300Z, May 4 to 0700Z, May 5
+ Indiana QSO Party	1500Z, May 4 to 0300Z, May 5
+ FISTS Spring Slow Speed Sprint	1700Z-2100Z, May 4
+ Delaware QSO Party	1700Z, May 4 to 2359Z, May 5
+ New England QSO Party	2000Z, May 4 to 0500Z, May 5 and 1300Z-2400Z, May 5
+ MIE 33 Contest	2300Z, May 4 to 0300Z, May 5
+ ARS Spartan Sprint	0100Z-0300Z, May 7
+ Phone Fray	0230Z-0300Z, May 8
+ CWops Mini-CWT Test	1300Z-1400Z, May 8 and 1900Z-2000Z, May 8 and 0300Z-0400Z, May 9
+ NCCC RTTY Sprint	0145Z-0215Z, May 10
+ NCCC Sprint	0230Z-0300Z, May 10
+ VOLTA WW RTTY Contest	1200Z, May 11 to 1200Z, May 12
+ SKCC Weekend Sprintathon	1200Z, May 11 to 2400Z, May 12
+ CQ-M International DX Contest	1200Z, May 11 to 1159Z, May 12
+ Arkansas QSO Party	1400Z, May 11 to 0200Z, May 12
+ FISTS Spring Unlimited Sprint	1700Z-2100Z, May 11
+ 50 MHz Spring Sprint	2300Z, May 11 to 0300Z, May 12

May Contest Calendar - Continued on page 44

Need a ride to a Club meeting, event, or activity?
Just send a message to the Club's e-mail reflector
GCARC <*at*> MAILMAN <*dot*> QTH <*dot*> NET
All members have access to this FREE service.

May Contest Calendar

WA7BNM Contest Calendar : www.contestcalendar.com

May Contest Calendar - Continued from page 43

WAB 7 MHz Phone/CW	1000Z-1400Z, May 12
4 States QRP Group Second Sunday Sprint	0000Z-0200Z, May 13
RSGB 80m Club Championship, SSB	1900Z-2030Z, May 13
Phone Fray	0230Z-0300Z, May 15
CWops Mini-CWT Test	1300Z-1400Z, May 15 and 1900Z-2000Z, May 15 and 0300Z-0400Z, May 16
NAQCC CW Sprint	0030Z-0230Z, May 16
NCCC RTTY Sprint	0145Z-0215Z, May 17
NCCC Sprint	0230Z-0300Z, May 17
Portuguese Navy Day Contest	0900Z, May 17 to 1700Z, May 19
UN DX Contest	0600Z-2100Z, May 18
NZART Sangster Shield Contest	0800Z-1100Z, May 18 and 0800Z-1100Z, May 19
Aegean RTTY Contest	1200Z, May 18 to 1200Z, May 19
His Maj. King of Spain Contest, CW	1200Z, May 18 to 1200Z, May 19
EU PSK DX Contest	1200Z, May 18 to 1200Z, May 19
Feld Hell Sprint	1600Z-1759Z, May 18 and 2000Z-2159Z, May 18
Baltic Contest	2100Z, May 18 to 0200Z, May 19
Run for the Bacon QRP Contest	0100Z-0300Z, May 20
SKCC Sprint	0000Z-0200Z, May 22
Phone Fray	0230Z-0300Z, May 22
CWops Mini-CWT Test	1300Z-1400Z, May 22 and 1900Z-2000Z, May 22 and 0300Z-0400Z, May 23
RSGB 80m Club Championship, Data	2000Z-2030Z, May 22
NCCC RTTY Sprint	0145Z-0215Z, May 24
NCCC Sprint	0230Z-0300Z, May 24
CQ WW WPX Contest, CW	0000Z, May 25 to 2359Z, May 26
QCX Challenge	1300Z-1400Z, May 27 and 1900Z-2000Z, May 27 and 0300Z-0400Z, May 28
Phone Fray	0230Z-0300Z, May 29
CWops Mini-CWT Test	1300Z-1400Z, May 29 and 1900Z-2000Z, May 29 and 0300Z-0400Z, May 30
RSGB 80m Club Championship, CW	1900Z-2030Z, May 30
NCCC RTTY Sprint	0145Z-0215Z, May 31
NCCC Sprint	0230Z-0300Z, May 31

w2mmd.org

www.facebook.com/W2MMD

twitter.com/w2mmd_gcarc

Facebook Page

Club Committees

Standing Committees	Committee Chairs
Membership and Publicity	**Bob Fields, KC6AOH**
Hamfest	**Sheldon Parker, K2MEN and Bill Price, NJ2S**
Repeater	**John Zaruba Jr, K2ZA**
Hospitality	**Jeffrey Garth, WB2ZBN**
W2MMD Clubhouse Site	**Al Arrison, KB2AYU**
Field Day	**Al Arrison, KB2AYU**
Nominations	**Jim Clark Sr, KA2OSV**
Health, Welfare, & Silent Keys	**Bill Price, NJ2S**
Budget	**Al Arrison, KB2AYU**
Constitution and By-Laws	**Ron Block, NR2B**
Membership Badges	**Chuck Colabrese, WA2TML**

Activity Committees	Committee Chairs
ARES/RACES Emergency Communications	***Open position***
Club Publications	**Jeffrey Garth, WB2ZBN**
License Testing/VEC Liaison	**Gary Reed, N2QEE**
Programs	**Tony Starr, WA2FZB**
Membership Roster Database	**Jeffrey Garth, WB2ZBN**
Club Historian	**Jeffrey Garth, WB2ZBN**
GCARC Family Picnic	**Laurie Love, KD2EYW**
Foxhunts	**Jim Wright, N2GXJ**
W2MMD License Trustee	**Darrell Neron, AB2E**
Contests and Nets	**Tony Starr, WA2FZB**
Holiday Dinner Party	**Jennifer Robinson, KD2EYR**
W2MMD Special Event Station	**Mark Gottlieb, WA2DIY**

GCARC <*at*> Mailman <*dot*> QTH <*dot*> Net e-mail reflector guidelines

1. **No attachments** (e.g. pictures, files) are allowed on the reflector.
2. If you have Club-related pictures that you would like to share, you can send them to the webmaster, he will put them on the website and he will send out a general e-mail to all the members.
3. Otherwise, the pictures will have to be sent to the members' addresses.
4. URLs/Hyperlinks are acceptable on the reflector.
5. Do not send any messages with e-mail addresses in the **BCC** (**Blind Carbon Copy**) field. The message will be rejected. Use only the **To:** or **CC:** fields.
6. Members are subscribed to the reflector using the member's e-mail address from the roster database. You must use that address when sending an e-mail via the reflector.
7. If you use another address on the reflector, the message will get rejected or "*bounced*", because the reflector does not recognize that address.
8. Whenever a message sent to reflector is rejected or *"bounced"* for various reasons, the administrator has to log-in to the Mailman.QTH website and approve the message. If the admin recognizes the address as belonging to a Club member, the message is accepted and passed on to the reflector.

FYI...If you use Comcast e-mail, you are limited to 100 addresses per message.
For more information about the e-mail reflector, goto : **www.mailman.qth.net**

The W2MMD Repeaters

2 Meter Repeater
Output: 147.180 MHz
Input: 147.780 MHz
Offset: +600 kHz - PL : 131.8 Hz
(Conventional FM plus C4FM Capability)
EchoLink : W2MMD-R

70 cm Repeater
Output: 442.100 MHz
Input: 447.100 MHz
Offset: +5 MHz - PL : 131.8 Hz
(Conventional FM)

The above 2 repeaters are all
located in Pitman, NJ
GPS: 39.728481°, -75.131088°

1.25 Meter Repeater
Output: 224.660 MHz
Input: 223.060 MHz
Offset: -1.6 MHz - PL : 131.8 Hz
Location: Sewell, NJ
GPS: 39.746738°, -75.077094°

SKYWARN™ Net
Sunday @ 1945: 147.180 MHz Repeater

Gloucester County ARES/RACES Net
Sunday @ 2000: 147.180 MHz Repeater

10 Meter Rag Chew Net
Every Tuesday @ 2000 Hours
Tune-In on 28.465 MHz or 28.475 MHz

2 Meter Rag Chew Net
Every Thursday @ 2000 Hours
Tune-In on the 147.180 MHz Repeater

10 Meter Swap Meet
2nd Saturday of the Month @ 2000 Hours
Check-in on 28.465 MHz or 28.475 MHz

Meeting Calendar

General Membership Meeting

Wednesday, May 1, 2019 @ 1930 Hours
Pfeiffer Community Center
301 Blue Bell Road
Williamstown, NJ
(Everyone is welcome)

Board of Directors Meeting

Wednesday, May 15, 2019 @ 1900 Hours
W2MMD Clubhouse
(All members are welcome)

May 1, 2019

General Membership Meeting

Ward Silver, N0AX
Ham Shack Grounding

** Badges **

Need a new or replacement badge
Contact "The BadgeMan"

Chuck Colabrese, WA2TML
colabrese <*at*> comcast <*dot*> net

Question Pool Answers : G7B01:A; G7B02:A; G7B03:B; G7B04:C; G7B05:C; G7B06:A; G7B07:D; G7B08:B; G7B09:C; G7B10:D